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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,409	09/20/2006	Rudolf Pachl	22344 US-dc	3752
23690 7590 03/03/2011 ROCHE DIAGNOSTICS OPERATIONS INC. 9115 Hague Road Indianapolis, IN 46250-0457			EXAMINER	
			ALEXANDER, LYLE	
muianapons, nv	1 40230-0437		ART UNIT PAPER NUMBER	
			1773	
			NOTIFICATION DATE	DELIVERY MODE
			03/03/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)	
	10/581,409	PACHL ET AL.	
Office Action Summary	Examiner	Art Unit	
	LYLE A. ALEXANDER	1773	
The MAILING DATE of this communication appeariod for Reply	opears on the cover sheet with	the correspondence address	:
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING IF Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA .136(a). In no event, however, may a repl d will apply and will expire SIX (6) MONTH tle, cause the application to become ABAN	TION. y be timely filed S from the mailing date of this communic DONED (35 U.S.C. § 133).	
Status			
 1) Responsive to communication(s) filed on 29 2a) This action is FINAL. 2b) Th 3) Since this application is in condition for allow closed in accordance with the practice under 	is action is non-final. ance except for formal matter	•	ts is
Disposition of Claims			
4) ☑ Claim(s) 22-36 and 40-42 is/are pending in the 4a) Of the above claim(s) is/are withdress. 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 22-36 and 40-42 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examination is objected to by the Examination The specification of the specification	ccepted or b) objected to by e drawing(s) be held in abeyance ction is required if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.1	, ,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures * See the attached detailed Office action for a list	nts have been received. nts have been received in App ority documents have been re au (PCT Rule 17.2(a)).	olication No ceived in this National Stage)
Attachment(s)	» □	(DTO (12)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/ľ	nmary (PTO-413) /Iail Date rmal Patent Application	

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Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

1. Claims 22-25, 29-36 and 40-42 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Markart (USP 6,441,898).

Markart teaches an analytical test element(18) for the measurement of blood glucose. Column 5 lines 3+ describe the construction of the test strip in figures 2-4. The strip(18) comprises carrier web(26) that is covered with reagent/paint layer(34) and diaphragm strips(30) on both ends. The left end of the strip is a surface(32) that is used for standardization. The area between the two diaphragm strips are the reaction field. There is an aperture (40) in the hydrophobic outer surface (38) where the blood sample is applied. Over the reaction field and below the aperture is the hydrophilic inner layer(36) that spreads the sample over layer(36). Figure 4 shows there is a gap between the inner layer(36) and the reaction field(34).

The Office has read the claimed "inert carrier" on the taught web (26), the claimed "application zone" on the taught opening (40), the claimed "channel gap" on the taught gap between layer (36) and the reaction field and the "hydrophobic structure" on the taught outer surface (38).

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Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 26-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Markart et al.

See Markart et al. supra.

Markart et al. are silent to the claimed "distance between elevation ... 50nm-200 microns ... average height ... 50nm-100 microns ...", the hydrophobic surface energy less than or equal to 10nM/m and the hydrophobic contact angle greater than 120'.

MPEP 2144.05(II)(B) states that optimization of a result effective variable is ordinarily within the skill of the art. A result-effective variable is a variable which achieves a recognized result, before the determination of the optimum or workable ranges of said variable might be characterized as routine experimentation. See In re Antonie, 559 F.2d 618, 195 USPQ 6 (CCPA 1977) and also In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

The selection of the surface roughness, is a result effective variable with the well known and expected results relating to the speed and turbulence of a fluid flow. The more rough the surface, the slower and more turbulent will be the fluid flow. It would have been within the skill of the art to modify Markart and make the surface have a roughness with a "distance between elevation ...

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50nm-200 microns ... average height ... 50nm-100 microns ..." as optimization of a result effective variable to achieve the desired fluid flow speed and turbulence.

The selection of the surface energy and contact angle relate to the extent of hydrophobicity. Depending on the characteristics of the test fluid, such as viscosity, the hydrophobic characteristics of the surface will need to be optimized. It would have been within the skill of the art to further modify Markart to have a surface energy less than or equal to 10nM/m and the hydrophobic contact angle greater than 120' as optimization of a result effective variable to achieve the well known and expected results of the desired hydrophobicity for the specific type of sample

Response to Arguments

- 3. Applicant's arguments filed 12/29/10 have been fully considered but they are not persuasive.
- 4. Applicants' remarks concerning the objection to claim 42 under 37 CFR 1.75 and claim 22 under 35 USC 112 second paragraph were convincing and these rejections have been vacated.
- 5. Applicant states it is not clear how Markart is being read on the claim "hydrophobic structured surface in an area around the application zone". Markart teach in column 5 lines 37-40 the test strip is covered by a hydrophobic layer(38) and has an opening(40) to receive the sample. The Office has equated the taught surface(38) to the claimed hydrophobic surface and the taught opening(40) to the claimed application

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zone. The Office maintains Markart clearly teaches a hydrophobic surface(38) around an application opening(40) and meets the instant claims

- 6. Applicant's state the method claims 40-42 require a hydrophobic structure to surround the application zone that is not anticipated by Markart. The Office maintains Markart clearly meets these limitations as discussed above.
- 7. Applicant traverses the 35 USC 103 rejections of claims 26-28 on the basis the Markart fails to teach the claimed "hydrophobic structured surface at least in an area around the application zone". The Office maintains Markart clearly meets these limitations as discussed above.

This is a RCE of applicant's earlier Application No. 10/581,409. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LYLE A. ALEXANDER whose telephone number is (571)272-1254. The examiner can normally be reached on Monday though Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/LYLE A ALEXANDER/ Primary Examiner, Art Unit 1797